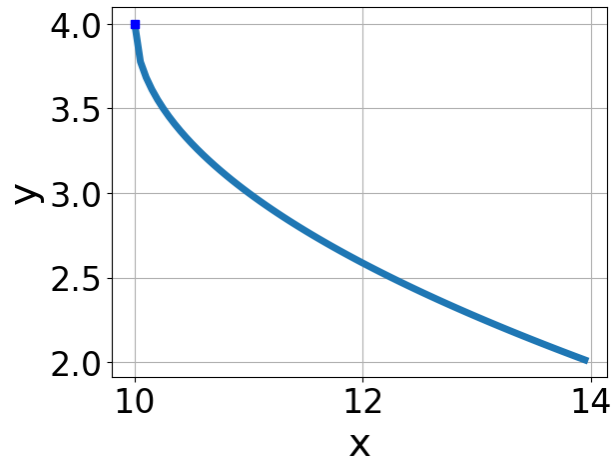


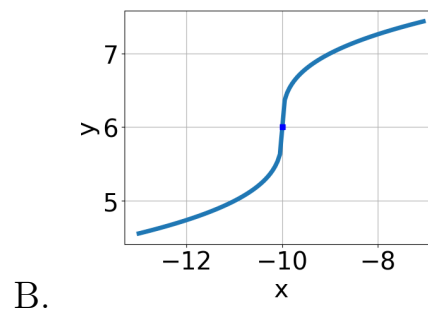
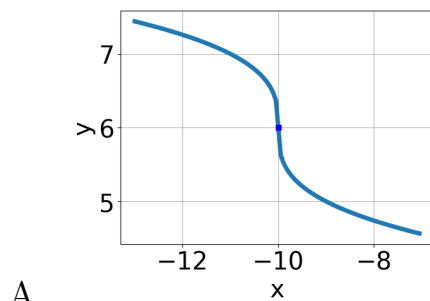
1. Choose the equation of the function graphed below.

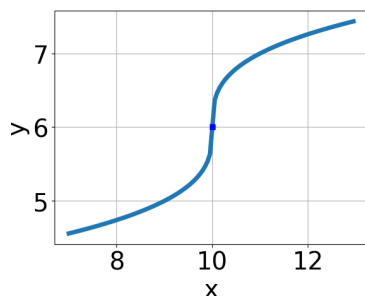


- A. $f(x) = -\sqrt[3]{x-10} + 4$
 B. $f(x) = \sqrt[3]{x-10} + 4$
 C. $f(x) = \sqrt[3]{x+10} + 4$
 D. $f(x) = -\sqrt[3]{x+10} + 4$
 E. None of the above

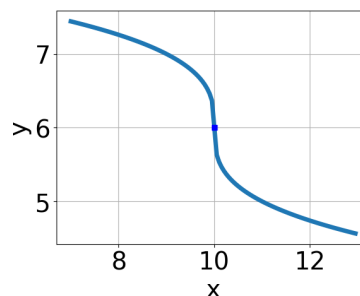
2. Choose the graph of the equation below.

$$f(x) = \sqrt[3]{x-10} + 6$$





C.



D.

E. None of the above.

3. What is the domain of the function below?

$$f(x) = \sqrt[6]{5x + 9}$$

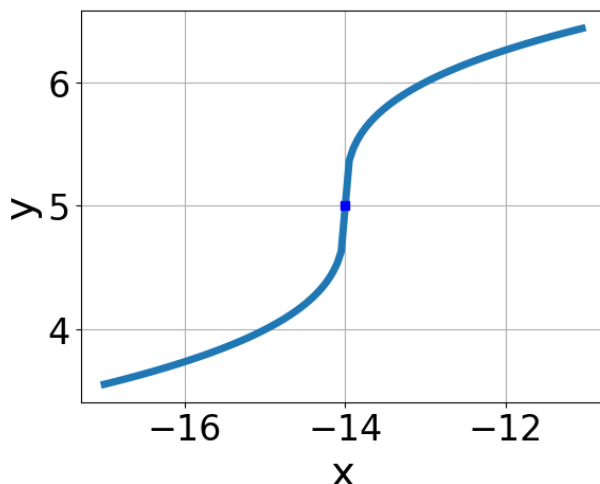
- A. $(-\infty, \infty)$
- B. $(-\infty, a]$, where $a \in [-4.5, -0.8]$
- C. $(-\infty, a]$, where $a \in [-0.7, 0.6]$
- D. $[a, \infty)$, where $a \in [-3.04, -0.59]$
- E. $[a, \infty)$, where $a \in [-1.36, 0.62]$

4. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{32x^2 + 24} - \sqrt{-76x} = 0$$

- A. $x \in [-1.81, -0.27]$
- B. $x_1 \in [-0.14, 0.63]$ and $x_2 \in [0.4, 3.9]$
- C. $x_1 \in [-2.1, -1.51]$ and $x_2 \in [-1.1, 0.2]$
- D. $x \in [-2.1, -1.51]$
- E. All solutions lead to invalid or complex values in the equation.

5. Choose the equation of the function graphed below.



- A. $f(x) = \sqrt{x + 14} + 5$
- B. $f(x) = -\sqrt{x - 14} + 5$
- C. $f(x) = -\sqrt{x + 14} + 5$
- D. $f(x) = \sqrt{x - 14} + 5$
- E. None of the above

6. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{-6x - 7} - \sqrt{-3x + 7} = 0$$

- A. $x_1 \in [-4.17, -0.17]$ and $x_2 \in [2.33, 5.33]$
- B. $x \in [-0, 1]$
- C. $x \in [-5.67, -1.67]$
- D. $x_1 \in [-5.67, -1.67]$ and $x_2 \in [-1.17, 1.83]$
- E. All solutions lead to invalid or complex values in the equation.

7. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{-48x^2 - 9} - \sqrt{-42x} = 0$$

- A. $x \in [0.46, 0.53]$
- B. $x_1 \in [0.36, 0.41]$ and $x_2 \in [-0.38, 1.8]$
- C. All solutions lead to invalid or complex values in the equation.
- D. $x \in [0.36, 0.41]$
- E. $x_1 \in [-0.55, -0.35]$ and $x_2 \in [-1.34, -0.02]$

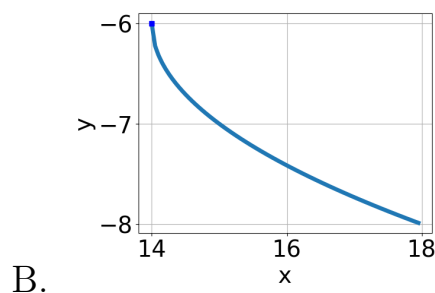
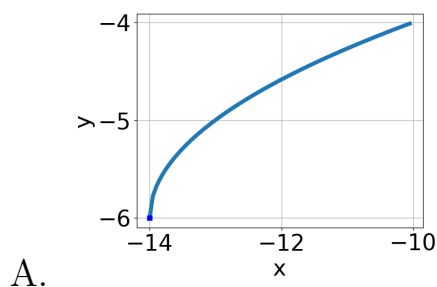
8. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

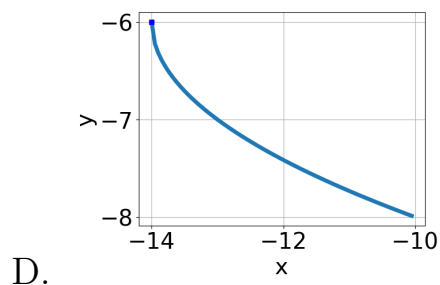
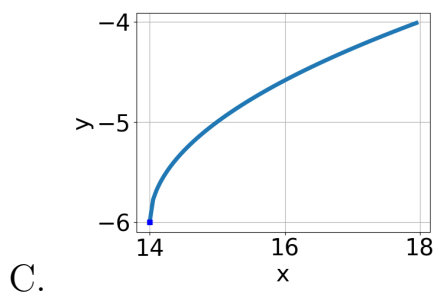
$$\sqrt{-8x - 6} - \sqrt{7x - 7} = 0$$

- A. $x_1 \in [-0.78, -0.75]$ and $x_2 \in [0.83, 1.87]$
- B. $x \in [-0.93, -0.76]$
- C. All solutions lead to invalid or complex values in the equation.
- D. $x \in [0.01, 0.41]$
- E. $x_1 \in [-0.78, -0.75]$ and $x_2 \in [-0.84, 0.73]$

9. Choose the graph of the equation below.

$$f(x) = \sqrt{x + 14} - 6$$





E. None of the above.

10. What is the domain of the function below?

$$f(x) = \sqrt[3]{5x - 7}$$

- A. $(-\infty, \infty)$
- B. The domain is $(-\infty, a]$, where $a \in [0.5, 0.95]$
- C. The domain is $(-\infty, a]$, where $a \in [1.23, 2.47]$
- D. The domain is $[a, \infty)$, where $a \in [-0.9, 1.1]$
- E. The domain is $[a, \infty)$, where $a \in [0.9, 2.8]$